



Los Angeles  
Department of  
Water & Power

# LA's Water Supply Future

## Joint Informational & Oversight Hearing

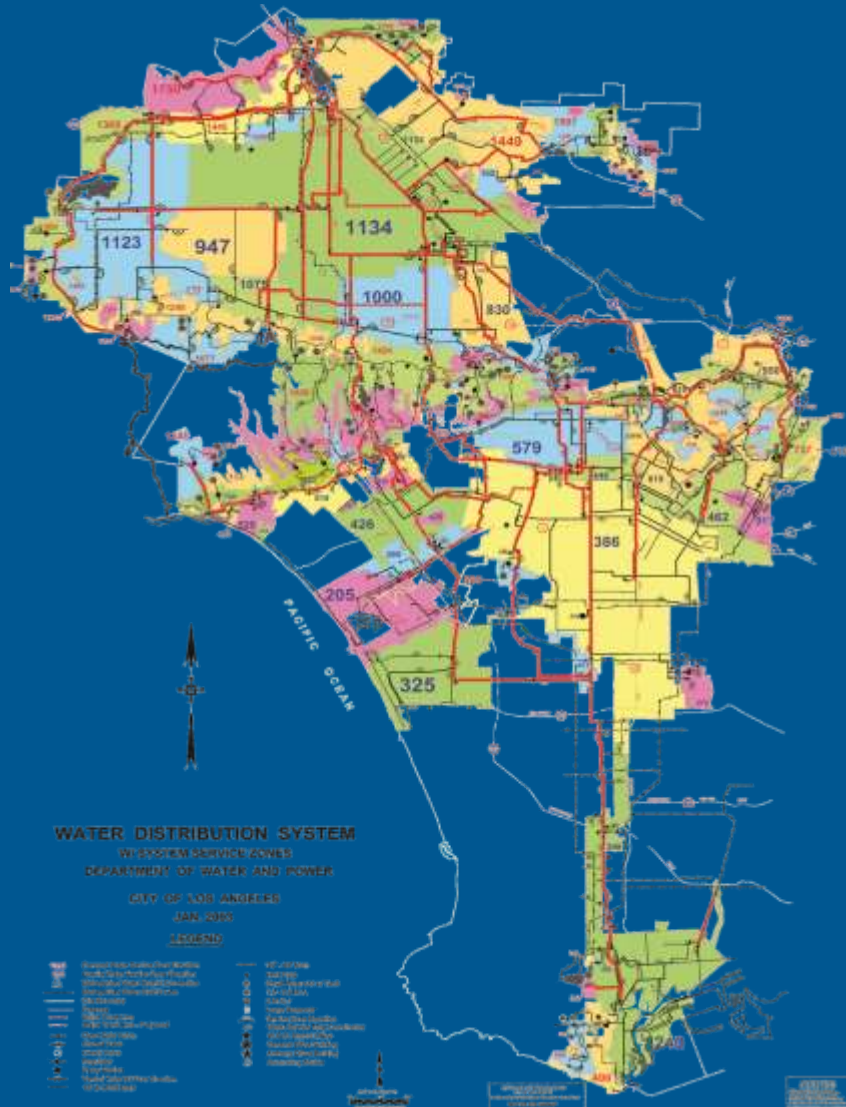
Assembly Water, Parks and Wildlife Committee  
and The Select Committee on Urban Rivers and Streams  
(Assembly Members Levine and Gomez, Chairs)

**November 16, 2015**

David R. Pettijohn, P.E.  
Director of Water Resources  
Los Angeles Department of Water and Power



# LADWP Today

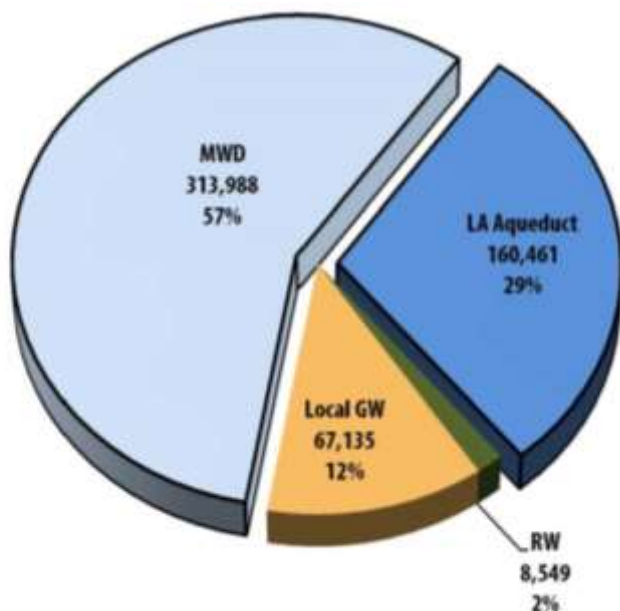


- **Service area (469 square miles)**
- **Provide Water and Power to approximately 4 million people every day**
- **Over 494 million gallons of water delivered per day – 553,900 acre-feet per year**

# Urban Water Management Plan Supply Growth

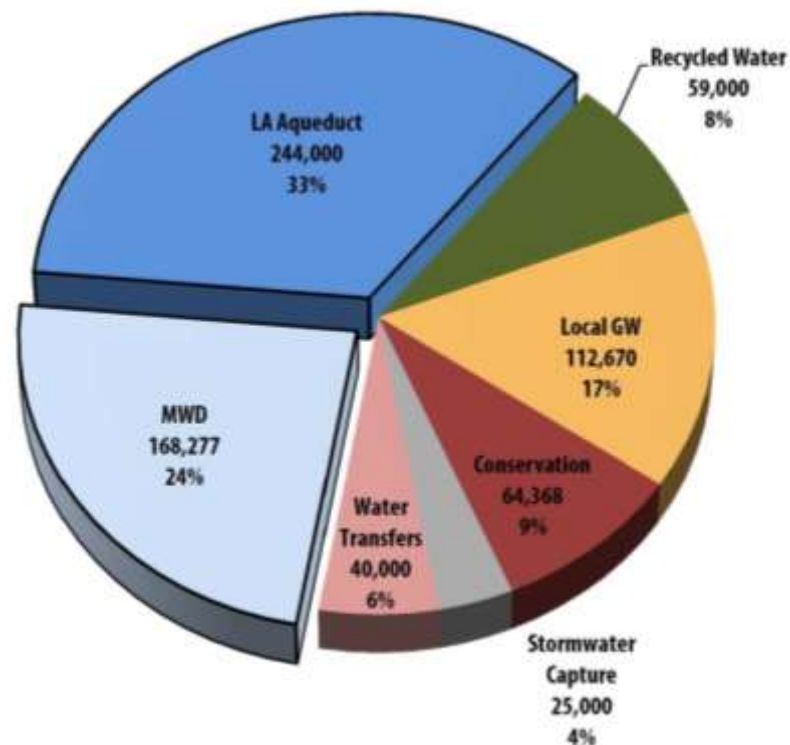
## TODAY

FYE 2011-2015 Average  
Total: 513,540 AFY



## FUTURE\*

FYE 2035  
Total: 711,000 AFY



\*Estimated from the 2010 Urban Water Management Plan





Los Angeles  
Department of  
Water & Power

# Long Term Solution for Reliable Water Supply



**Recycled Water**



**Stormwater Capture**



**Water Conservation**



**SF Groundwater Basin Remediation**



**Local Water Supply Reliability**



Los Angeles  
Department of  
Water & Power

# Local Supply Development Conservation

**CONSERVE**

Local City Ordinances

Commercial Programs

Residential Programs

Public Outreach & Education

LADWP Partnerships





Los Angeles  
Department of  
Water & Power

# Residential & Commercial Rebate Amounts



Up to \$200



\$500



Up to \$1.75/sq.ft.



\$100



\$300



\$3,000



Free



\$400



Up to \$13

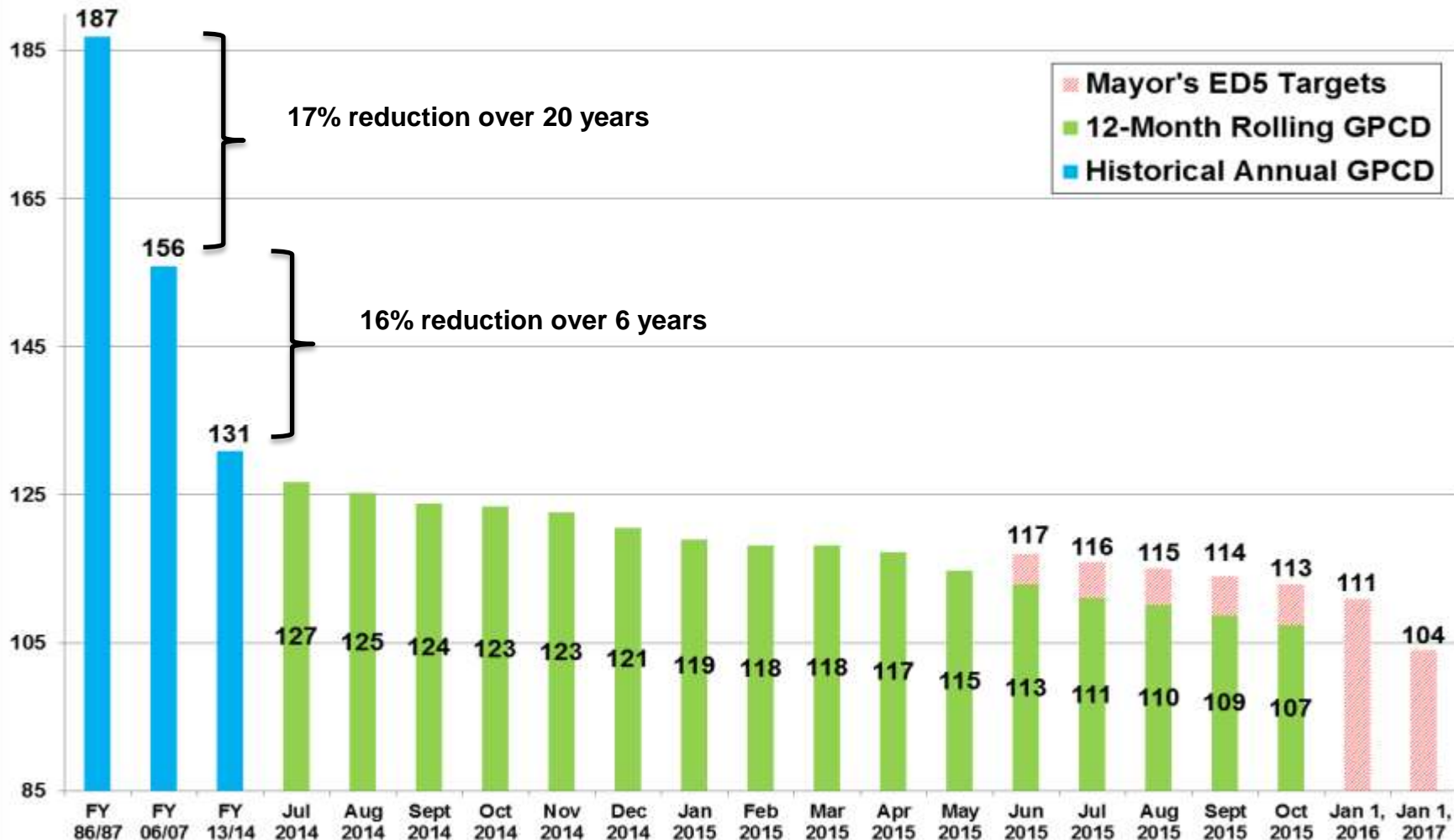


\$200



# ED5 Progress Tracking – Total GPCD

## LADWP 12-Month Rolling Total GPCD



# Local Supply Development Stormwater Capture

**Dam Improvements**



**Cisterns**



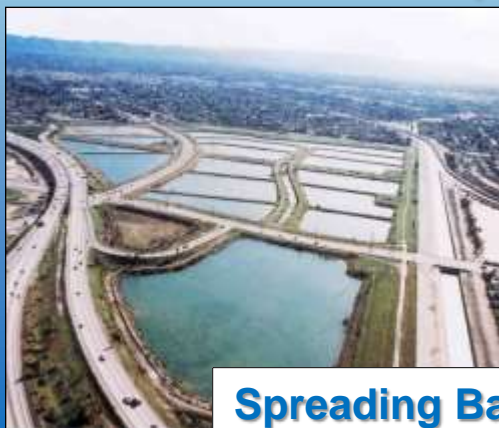
Centralized



**CAPTURE**



Distributed



**Spreading Basins**



**Rain Gardens**

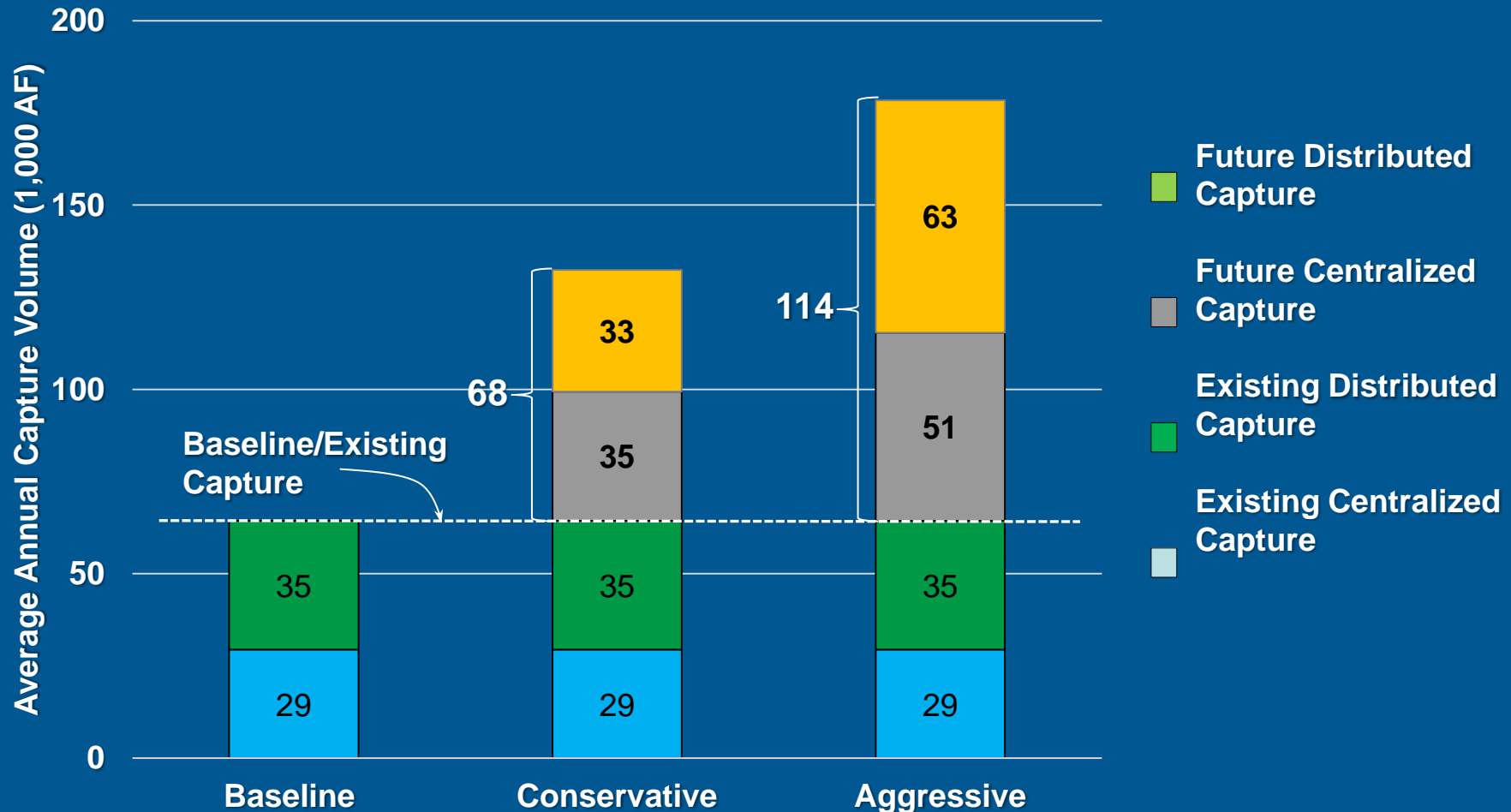


**Rain Barrels**



# Stormwater Capture Potential

## Distributed and Centralized Capture - 2035

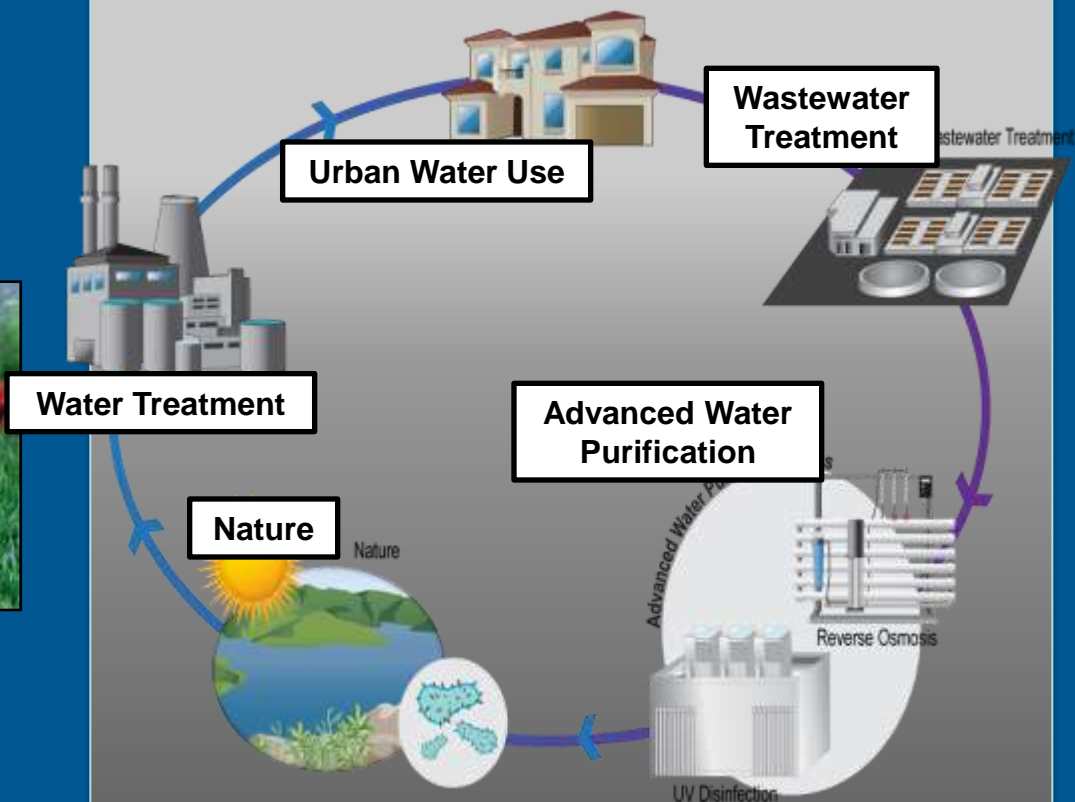


# Local Supply Development Recycled Water

## Non-Potable Reuse



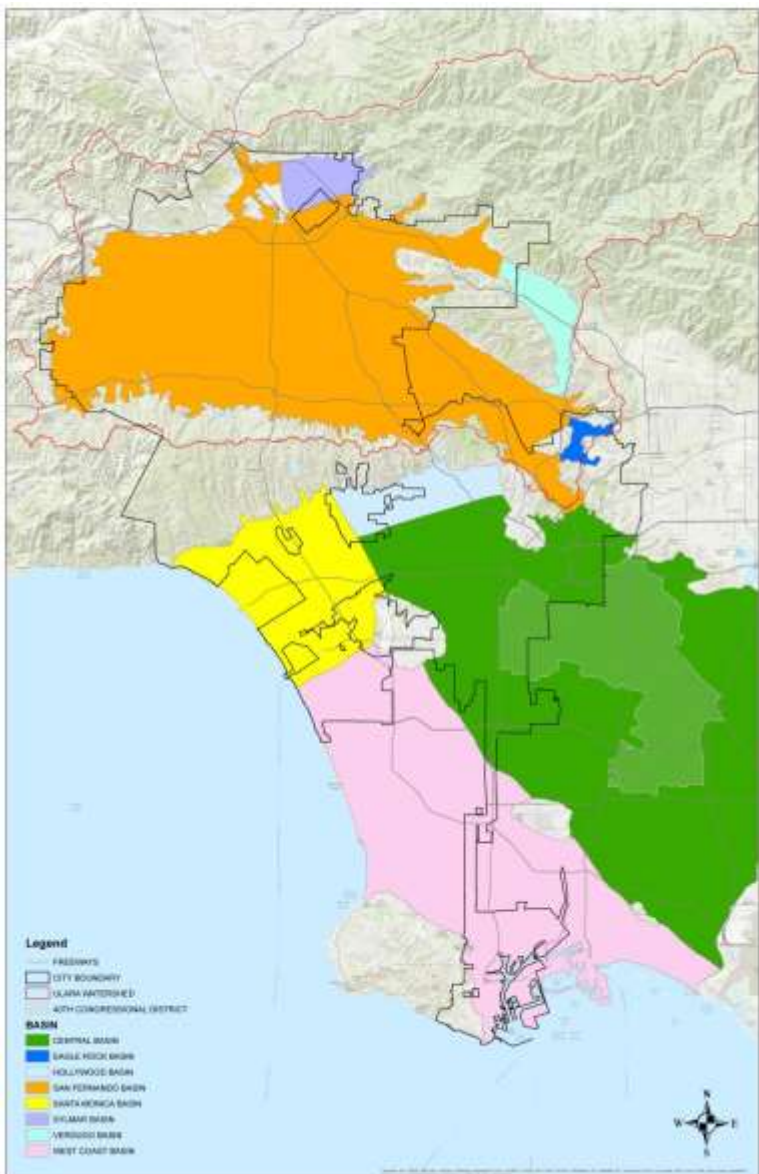
## Indirect Potable Reuse





Los Angeles  
Department of  
Water & Power

# Groundwater Supply Facts and Figures



LA's Primary GW Basins		Total Available Storage	Current Water Rights
	San Fernando	461,744 AF	87,000 AFY
	Central	27,072 AF	16,546 AFY
	Sylmar	~	3,570 AFY
	West Coast	3,006 AF	1,503 AFY

Other Groundwater Basins of Interest		
	Verdugo Basin	Import Return Credit
	Eagle Rock Basin	~ 500 AFY
	Santa Monica Basin	No Adjudication
	Hollywood Basin	No Adjudication

**LA's Total Groundwater Rights**

**~109,000 AFY**





Los Angeles  
Department of  
Water & Power

# Groundwater Remediation Project San Fernando Basin

Remediation of San Fernando Basin and Restoration of up to  
110,405 AFY groundwater supplies

Planned groundwater basin remediation crucial to fully utilize the  
San Fernando Basin

GAC Treatment at Tujunga Well Fields – Pilot Study



Pollock Water Treatment Facility





Los Angeles  
Department of  
Water & Power

# Previous Grant Funding



Project	Grant Amount	Total Project Cost
<b>STORMWATER CAPTURE</b>		
Tujunga Spreading Grounds	\$3 M	\$27 M
Stormwater Capture Master Plan	\$0.4 M	\$0.8 M
Laurel Canyon Blvd. Green Street Project	\$2 M	\$2.4 M
Woodman Avenue	\$1.6 M	\$3.4 M
<b>GROUNDWATER</b>		
LA – Burbank GW System Interconnection	\$0.5 M	\$1 M
Mission Wells Improvement	\$3 M	\$14 M
Manhattan Wells Improvement	\$3 M	\$26.9 M





Los Angeles  
Department of  
Water & Power

# QUESTIONS ?

A collage of six photographs showing various drought-tolerant plants and gardens. The top left photo shows a dense bed of yellow and red zinnias. The top right photo shows a garden with tall green grasses and purple flowers. The bottom left photo shows a garden with purple flowers and green foliage. The bottom center photo shows a garden with green foliage and yellow flowers. The bottom right photo shows a garden with orange flowers and green foliage.

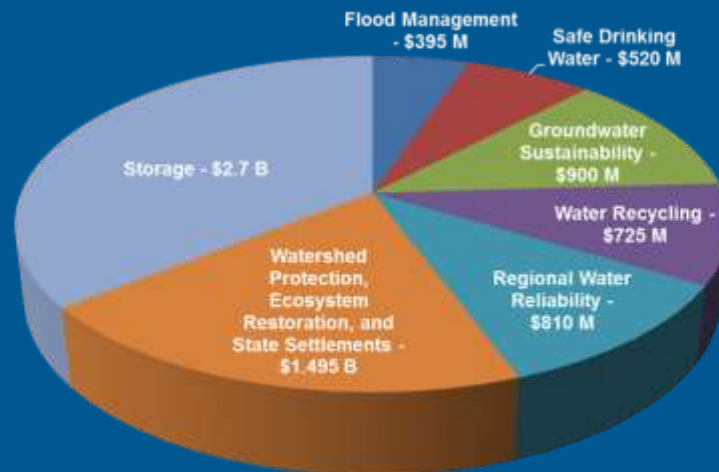
[www.LADWP.com/localwater](http://www.LADWP.com/localwater)



# Potential Funding Sources

- Water Rates
- Responsible Parties
- Securitization
- Proposition 1 Grants and Loans
- State Revolving Fund
- Other State/Federal programs

The Water Quality, Supply and Infrastructure Improvement Act of 2014



*The City of Los Angeles may be eligible to compete for about \$2 billion.*